

WHAT IS CLAIMED IS:

1. A method of constructing orchid haploid,  
wherein an auxin solution is dropped to  
5 unfertilized orchid flowers so as to form seeds  
based on parthenogenesis, then these seeds are  
germinated and grown so as to obtain orchid haploid.

2. The method of constructing orchid  
10 haploid of claim 1,  
wherein said dropping of said auxin  
solution to unfertilized orchid flowers is treated  
within 30 days after blooming.

15 3. The method of constructing orchid  
haploid of claim 1,  
wherein said auxin solution is dropped to  
a column or a part including said column of  
unfertilized orchid flowers.

20 4. The method of constructing orchid  
haploid of claim 1,  
wherein a concentration of said auxin  
solution is between 0.1 and 5.0%.

25 5. The method of constructing orchid  
haploid of claim 1,  
wherein said auxin solution is selected  
from a group consisting of Indoleacetic acid (IAA),  
30 4-chloro-indoleacetic acid, phenylacetic acid, 2,4-  
dichloro-phenoxyacetic acid (2,4-D),  $\alpha$ -  
naphthaleneacetic acid (NAA), 2,6-dichloro-benzoic  
acid, indolebutyric acid (IBA), 4-chloro-  
phenoxyacetic acid, 5-chloro-indazole ethyl acetate  
35 and 2,4,5-trichloro-phenylacetic acid.

6. A method of constructing a seed

propagation variety of orchid,

wherein an auxin solution is dropped to unfertilized orchid flowers so as to form seeds based on parthenogenesis, and these seeds are germinated and haploid plants are selected from orchid plants thus grown, and the germinating seeds judges as haploid plants are grown to give said seed propagation variety of orchid.

10           7. The method of constructing a seed propagation variety of orchid of claim 6,

wherein said judgement as haploid plants are done by measuring DNA contents or the number of chromosomes of samples obtained within a period 15 between one to five months after germination.